



Atty Docket: HES 2001-IP-005305  
(1391-45100)

Patent

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants:	David Joe Steele et al.	§	Group Art Unit: 3672
Serial No.:	10/681,020	§	Examiner: N/A
Filed:	October 6, 2003	§	Confirmation No.: 6184
For:	THERMALLY-CONTROLLED VALVES AND METHODS OF USING THE SAME IN A WELLBORE	§	

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

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3-29-2004

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Edith Shek

**INFORMATION DISCLOSURE STATEMENT**

Commissioner:

This Information Disclosure Statement, including completed Form PTO-1449, comprises a list of pertinent art of which Applicants are aware. A copy of each foreign patent and publication listed on Form PTO-1449 is enclosed herewith.

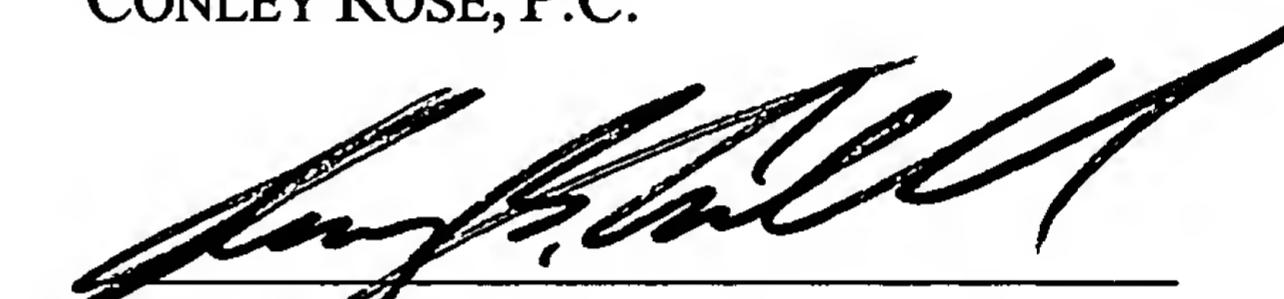
As a part of this submission, an electronic Information Disclosure Statement (eIDS) is being transmitted on this date, and includes a listing of the U.S. Patents and Published Applications. A

printed copy of that submission is attached hereto. In accordance with 37 C.F.R. 1.98(e), no paper copies of those U.S. Patent and Published Applications are enclosed.

The submission of this Information Disclosure Statement and Form PTO-1449 is not an admission that the art cited is "prior" with respect to the present invention, nor is it a representation that no better art exists. Applicants hereby reserve the right to swear behind or otherwise disprove any alleged "prior" nature of any art cited should the facts support and that situation warrant such an action. It is submitted that the art cited does not constitute a bar to the patentability of Applicants' invention under 35 U.S.C. § 102 or § 103.

Respectfully submitted,  
CONLEY ROSE, P.C.

Date: 3-29-04



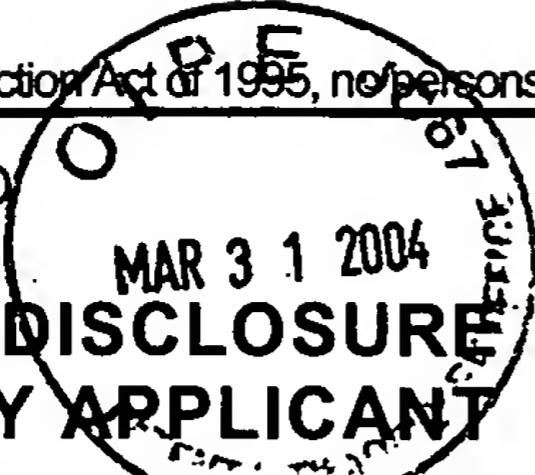
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ATTORNEY FOR APPLICANTS

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**Substitute for form 1449/PTO**



# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary.)

Substitute for form 1449/PTO		<i>Complete if Known</i>	
		Application Number	10/681,020
		Filing Date	October 6, 2003
		First Named Inventor	David Joe Steele
		Art Unit	3672
		Examiner Name	Not Assigned
Sheet	1	of	3
		Attorney Docket Number	HES 2001-IP-005305 (1391-45100)

## U.S. PATENT DOCUMENTS

## FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	AA	GB 2 385 078	08/13/2003	Baker Hughes		
	AB	GB 2 371 578A	07/31/2002	Baker Hughes		
	AC	EP 0 841 510 B1	01/09/2002	Matsushita		
	AD	EP 0 841 510 A1	05/13/1998	Matsushita		
	AE	EP 0 697 315 A3	04/15/1998	Daewoo		
	AF	EP 0 697 315 A2	02/21/1996	Daewoo		

<b>Examiner Signature</b>	<b>Date Considered</b>
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\* Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds of Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P. O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	10/680,020
(Use as many sheets as necessary)				Filing Date	October 6, 2003
				First Named Inventor	David Joe Steele
				Art Unit	3672
				Examiner Name	N/A
Sheet	2	of	3	Attorney Docket Number	2003-IP-005305 (1391-45100)

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue numbers(s), publisher, city and/or country where published.	T <sup>2</sup>
	AA	ANDERSEN, A., et al, "Feasibility Study of Shape Memory Alloys in Oil Well Applications," <i>Sintef Petroleum Research</i> , 01/97, pp. 1-5, 58, 60, 63, 66-67, 83, 85-86.	
	AB	"Design of Fluid Systems, Steam Utilization," <i>Spirax Sarco</i> , 1951, pp. 1-8, 21-27, 68-71.	
	AC	DOAN, L.T., et al, "Performance of the SAGD Process in the Presence of Water Sand- A Preliminary Investigation," <i>Journal of Canadian Petroleum Technology</i> , January 2003, Vol. 42, No.1, pp. 25-41.	
	AD	ERLANDSEN, SIGURD, et al, "World's First Multiple Fiber Optic Intelligent Well," <i>World Oil</i> , March 2003, Vol. 224, No. 3, 8 pages.	
	AE	Figure 9, Typical Steam Circuit, "Design of Fluid Systems: Steam Utilization," <i>Spirax Sarco</i> , Copyright 1985, p. 11.	
	AF	NASR, T.N., et al, "Novel Expanding Solvent-SAGD Process ES-SAGD," <i>Journal of Canadian Petroleum Technology</i> , Technical Note, 4 pages.	
	AG	NASR, T.N., et al, "SAGD Application In Gas Cap and Top Water Oil Reservoir, " <i>Journal of Canadian Petroleum Technology</i> , January 6, 2003, pp.32-38.	
	AH	POTMA, J., et al, "Thermal Horizontal Completions Boost Heavy Oil Production," <i>World Oil</i> , February 2003, pp. 83-85.	
	AI	Total Canada- Request for Proposal- SAGD Steam Diversion Systems, Methods, and Cost Estimate, 3 pages.	
	AJ	WALLS, E., et al, "Residual Oil Saturation Inside the Steam Chamber During SAGD," <i>Journal of Canadian Petroleum Technology</i> , January 2003, Vol. 42, No. 1, pp. 39-47.	
	AK	<a href="http://www.conocophillips.com/canada/news/032502_gas_bitumen.asp">http://www.conocophillips.com/canada/news/032502_gas_bitumen.asp</a> , 10/1/2003, 2 pages.	
	AL	<a href="http://www.conocophillips.com/canada/ops/surmont.asp">http://www.conocophillips.com/canada/ops/surmont.asp</a> , 10/1/2003, 2 pages.	
	AM	Fluid Injection into Tight Rocks, <a href="http://www.132.175.127.176/ngotp/projects/ngotp.cfm?Project ID=OGRT-010">http://www.132.175.127.176/ngotp/projects/ngotp.cfm?Project ID=OGRT-010</a> , 8/11/2003.	
	AN	P.C. McKenzie Company, "How does an Amot Thermostic Control Valve Work?" <a href="http://www.mckenziecorp.com/amot_valve.htm">http://www.mckenziecorp.com/amot_valve.htm</a> , 9/4/2003.	

Examiner Signature		Date Considered	
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\* Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449/PTO				<b>Complete if Known</b>	
				Application Number	10/680,020
				Filing Date	October 6, 2003
				First Named Inventor	David Joe Steele
				Art Unit	3672
				Examiner Name	N/A
Sheet	3	of	3	Attorney Docket Number	2003-IP-005305 (1391-45100)

**NON PATENT LITERATURE DOCUMENTS**

	AO	GIULIANI, C., et al; "Flow Rate Allocation in Smart Wells"; High-Tech Wells Conference, February 11-13, 2003; Galveston	
	AP	1995 Press Release; "Halliburton Introduces Durasleeve For Easier Shifting, Better Seal and Lower Total Costs"; <a href="http://www.halliburton.com/news/archive/1995/hesnews_100995.jsp">http://www.halliburton.com/news/archive/1995/hesnews_100995.jsp</a> ; 1 page	
	AQ	Flow Control – Systems and Products – Sliding Sleeves; Baker Hughes; <a href="http://www.bakerhughes.com/bot/completions/flow_control/products_sliding.htm">http://www.bakerhughes.com/bot/completions/flow_control/products_sliding.htm</a> ; 1 page	
	AR	Well Dynamics – Transforming Reservoirs Using SmartWell Technology, <a href="http://www.welldynamics.com/main.htm">http://www.welldynamics.com/main.htm</a> ; 8 pages	
	AS	Steam Assisted Gravity Drainage (SAGD); Alberta Energy Research Institute; <a href="http://www.aeri.ab.ca/sec/suc_sto/suc_sto_001_2.cfm">http://www.aeri.ab.ca/sec/suc_sto/suc_sto_001_2.cfm</a> ; 2 pages	
	AT	In Situ Technology, <a href="http://www.energy.gov.ab.ca/com/Sands/Royalty+Info/Royalty+Related+Info/The+Ne">http://www.energy.gov.ab.ca/com/Sands/Royalty+Info/Royalty+Related+Info/The+Ne</a> , 1 page	
	AU	North American Oil Reserves 2001; Alberta Energy Research Institute, <a href="http://www.energy.gov.ab.ca/cmn/docs/Oil_Reserves_2001.pdf">http://www.energy.gov.ab.ca/cmn/docs/Oil_Reserves_2001.pdf</a> ; 2 pages	
	AV	BlackRock Seeks Approval to Develop Orion SAGD Project, <a href="http://www1.newswire.ca/releases/August2001/02/c6924.html">http://www1.newswire.ca/releases/August2001/02/c6924.html</a> .	

Examiner Signature		Date Considered	
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## ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention	Thermally-Controlled Valves And Methods Of Using The Same In A Wellbore
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Thermally-Controlled Valves And Methods Of Using The Same In A Wellbore

Application Number: 10/681020 \*10/681020\*

Confirmation Number: 6184

First Named Applicant: David Steele

Attorney Docket Number: 1391-45100

Art Unit: 3672

Search string: ( 6433991 or 6053992 or 6607036 or 5613634 or 5199497 or 4619320 or 6588500 or 6257334 or 5957202 or 5860475 or 5085275 or 4641710 or 20030155113 or 20030155111 ).pn.

### US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
	1	6433991	2002-08-13	Deaton et al.		361	191
	2	6053992	2000-04-25	Wu et al.		148	402
	3	6607036	2003-08-19	Ranson et al.		166	302
	4	5613634	1997-03-25	Veronesi et al.		236	101
	5	5199497	1993-04-06	Ross		166	381
	6	4619320	1986-10-28	Adnyana et al.		166	65.1
	7	6588500	2003-07-08	Lewis		166	61
	8	6257334	2001-07-10	Cyr et al.		166	272.7
	9	5957202	1999-09-28	Huang		166	272.3
	10	5860475	1999-01-19	Ejiogu et al.		166	245
	11	5085275	1992-02-24	Gondouin		166	303
	12	4641710	1987-02-10	Klinger		166	303

### US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

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init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
	1	20030155113	2003-08-21	Mitchell et al.		166	68.5
	2	20030155111	2003-08-21	Vinegar et al.		166	59

**Signature**

Examiner Name

Date

Examiner Name	Date

UNITED STATES PATENT AND TRADEMARK OFFICE  
ACKNOWLEDGEMENT RECEIPT

Electronic Version 1.1

Stylesheet Version v1.1.1

Title of  
Invention

Thermally-Controlled Valves And Methods Of Using The Same In A  
Wellbore

Submission Type: Information Disclosure Statement

Application Number: 10/681020

\*10/681020\*

EFS ID: 58023

Server Response:

Confirmation Code	Message
ISVR1	Submission was successfully submitted - Even if Informational or Warning Messages appear below, please do not resubmit this application
ICON1	6184
ISYS5	Filename= N/A BusinessRule= Validation System/Function Call Information. #Supporting Msg:Server unable to validate the Confirmatton/Application numbers at this time. They will be checked by PTO personnel later.

First Named Applicant: David Steele

Attorney Docket Number: 1391-45100

Timestamp: 2004-03-29 11:00:58 EDT

From: us

File Listing:

Doc. Name	File Name	Size (Bytes)
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us-ids	us-ids.xsl	12026
package-data	1391-45100-pkda.xml	1898
package-data	package-data.dtd	27025
package-data	us-package-data.xsl	19263
Total files size		71941

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